

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A chemical conversion coating agent comprising:
at least one kind selected from the group consisting of zirconium, titanium and hafnium;

fluorine; and

an adhesion and corrosion resistance imparting agent,

wherein said adhesion and corrosion resistance imparting agent is at least one kind selected from the group consisting of:

1 to 5000 ppm (metal ion concentration) of at least one kind of metal ion (A) selected from the group consisting of zinc ion, manganese ion and cobalt ion;

1 to 5000 ppm (metal ion concentration) of alkaline earth metal ion (B);

1 to 5000 ppm (metal ion concentration) of metal ion (C) of Group III in the periodic table;

0.5 to 100 ppm (metal ion concentration) of copper ion (D); and

1 to 5000 ppm (as a silicon component) of a silicon-containing compound (E).

2. (Original) The chemical conversion coating agent according to Claim 1,
wherein the alkaline earth metal ion (B) is at least one kind selected from the group consisting of magnesium ion, calcium ion, barium ion and strontium ion,

the metal ion (C) of Group III in the periodic table is at least one kind selected from the group consisting of aluminum ion, gallium ion and indium ion, and

the silicon-containing compound (E) is at least one kind selected from the group consisting of silica, water-soluble silicate compounds, esters of silicic acid, alkyl silicates, and silane coupling agents.

3. (Currently Amended) The chemical conversion coating agent according to Claim 1 ~~or 2~~, containing

1 to 5000 ppm of at least one kind of a chemical conversion reaction accelerator selected from the group consisting of nitrite ion, nitro group-containing compounds, hydroxylamine sulfate, persulfate ion, sulfite ion, hyposulfite ion, peroxides, iron (III) ion, citric acid iron compounds, bromate ion, perchlorinate ion, chlorate ion, chlorite ion, as well as ascorbic acid, citric acid, tartaric acid, malonic acid, succinic acid and salts thereof.

4. (Currently Amended) A surface-treated metal comprising
a chemical conversion coat formed by the chemical conversion coating agent according to ~~any of Claims~~ Claim 1 to 3 on a surface thereof.

5. (Original) The surface-treated metal according to Claim 4,
wherein the chemical conversion coat has a coat amount of 0.1 to 500 mg/m² in a total amount of metals contained in the chemical conversion coating agent.

6. (New) The chemical conversion coating agent according to Claim 2, containing
1 to 5000 ppm of at least one kind of a chemical conversion reaction accelerator selected from the group consisting of nitrite ion, nitro group-containing compounds, hydroxylamine sulfate, persulfate ion, sulfite ion, hyposulfite ion, peroxides, iron (III) ion, citric acid iron compounds, bromate ion, perchlorinate ion, chlorate ion, chlorite ion, as well as ascorbic acid, citric acid, tartaric acid, malonic acid, succinic acid and salts thereof.

7. (New) A surface-treated metal comprising
a chemical conversion coat formed by the chemical conversion coating agent according to Claim 2 on a surface thereof.

8. (New) A surface-treated metal comprising
a chemical conversion coat formed by the chemical conversion coating agent according to Claim 3 on a surface thereof.

9. (New) A surface-treated metal comprising
a chemical conversion coat formed by the chemical conversion coating agent
according to Claim 6 on a surface thereof.

10. (New) The surface-treated metal according to Claim 7,
wherein the chemical conversion coat has a coat amount of 0.1 to 500 mg/m² in
a total amount of metals contained in the chemical conversion coating agent.

11. (New) The surface-treated metal according to Claim 8,
wherein the chemical conversion coat has a coat amount of 0.1 to 500 mg/m² in
a total amount of metals contained in the chemical conversion coating agent.

12. (New) The surface-treated metal according to Claim 9,
wherein the chemical conversion coat has a coat amount of 0.1 to 500 mg/m² in
a total amount of metals contained in the chemical conversion coating agent.